Sagem at DSEI 2013: a wide range of innovative solutions to meet armed forces' operational requirements

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Sagem (Safran) is showing a wide range of innovative solutions at the DSEI 2013 defense and security exhibition, designed to meet the most demanding requirements of air, land and naval forces in terms of intelligence, surveillance, protection, engagement, precision strikes, and asymmetrical combat.

Sagem's stand focuses on several different areas: navigation, optronic systems for armored vehicles and warships, integrated warfighter systems, portable optronics, tactical drone systems, missile seekers.

Several Sagem products will be making their debut at DSEI 2013:

**JIM LR II and JIM UC multifunction infrared binoculars.** Based on the same modular architecture, the JIM LR II (Long Range, second generation) and JIM UC (Uncooled) infrared binoculars feature day/night sensors, rangefinder, laser pointer, compass, GPS and data transmission. Drawing on the latest innovations, Sagem has added new functions to the JIM family: day/night image fusion, integrated image/video recording and improved image processing, and a new long-range laser pointer.

For support units, JIM LR II and JIM UC can be connected to a DHY-307 LW laser illuminator (Cilas), a Sterna star seeker (Vectronix AG), a new Instro Ltd. operating terminal, and the AFS sniper system (Apexo). JIM LR II binoculars are combat-proven, and have been chosen by several NATO countries (Denmark, USA, France, United Kingdom, Poland,…). More than 5,000 JIM LR units are in service or on order.

**Warfighter system.** Sagem is offering a modernized warfighter system that calls on its experience with the FELIN soldier modernization program, including operating feedback and improved technologies. The highly integrated C4I system features a latest-generation IP MANET radio and a smaller and more intuitive C2 system. Its open architecture facilitates the incorporation of new equipment, such as binoculars or weapon-mounted scopes, and new C2 applications.

Sagem is submitting a system proposal for the Smart Vest program (Benelux countries) and the ISSP program in Canada. Through its Swiss subsidiary Vectronix AG, Sagem is participating in the British infantry modernization program, FIST.

**Patroller – long-endurance intelligence and surveillance drone.** Based on the EASA-certified 1-ton class Stemme S15 airframe, Sagem's Patroller is an off-the-shelf drone system offering endurance of more than 20 hours. Flight tests in France and desert environments in 2013 showed the drone's ability to operate a multi-sensor payload (up to 250 kg), including the Sagem Euroflir optronic system coupled to a pod-mounted Comint electronic warfare sensor and an AIS receiver.
to monitor maritime traffic. The Patroller is operated from a tactical ground segment in compliance with NATO interoperability standards concerning shared intelligence.

**Missile seekers and guidance.** Involved in various joint French-British programs, Sagem is showcasing the infrared seeker for the upcoming MBDA FASGW (H)/ANL naval missile. Sagem also develops the bimode seeker (infrared and daytime channel) for the future land-based MMT missile being developed by MBDA as prime contractor. This new generation of seekers is based on an uncooled infrared array, allowing a simpler, more reliable architecture. Reflecting its dynamic emphasis on innovation, Sagem is also developing a new inertial navigation solution for tomorrow’s tactical missiles, based on high-performance vibrating gyros.

**BlueNaute™ attitude and heading reference system and Epsilon land navigator.** Based on hemispherical resonator gyros (HRG), BlueNaute™ is a new attitude and heading reference system, intended for navigation on commercial ships. Using this same breakthrough technology, Sagem also developed the Epsilon 20 land navigator, covering navigation requirements for logistics vehicles, geographic information and satellite communications. This HRG is patented by Sagem, and offers a navigation solution combining performance and reliability in a compact package.

Sagem products have been chosen by a number of major defense programs around the world because of their outstanding performance: Rafale fighter, NH90, Caracal and Tiger helicopters, infantry soldier modernization, combat vehicles (Leclerc, VBCI, BMP2, BMP3), artillery systems (Caesar, Archer, LRM Mars), and tactical drone systems. Sagem’s optronic and navigation systems are also critical components for today’s navies, used on submarines (Barracuda, Scorpène, Collins, U209, etc.), aircraft carriers (Canberra class LHD for Australia and the Mistral class BPC amphibious assault ship), FREMM, Horizon and Anzac frigates1, Baynunah corvettes and Adroit ocean patrol ships2.

Sagem will be at the stand N7-310 – French pavilion. Vectronix AG, Sagem’s Swiss subsidiary, is at the Swiss pavilion.

1 – Sagem developed and produces the Vampir NG panoramic infrared surveillance system for the Canberra LHD, Hobart class AWD destroyers and Anzac frigates.

2 – On the Baynunah class corvettes and the Adroit patrol boat, built by DCNS, Sagem developed and produces the Sigma and EOMS-NG navigation systems, and the electro-optical detection and tracking systems. The Baynunah corvettes are part of a program for six multimission ships, currently being built by Abu Dhabi Ship Building for the United Arab Emirates navy.

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**Sagem**, a high-tech company of Safran, holds world or European leadership positions in optronics, avionics, electronics and safety-critical software for both civil and military markets. Sagem is the No. 1 company in Europe and No. 3
worldwide for inertial navigation systems (INS) used in air, land and naval applications. It is also the world leader in helicopter flight controls and the European leader in optronics and tactical UAV systems. Operating across the globe through the Safran group, Sagem and its subsidiaries employ 7,500 people in Europe, Southeast Asia and North America. Sagem is the commercial name of the company Sagem Défense Sécurité.

For more information: www.sagem-ds.com

Press contact
Philippe WODKA-GALLIEN
Tél.: +33 (0)1 58 11 19 49
philippe.wodka-gallien@sagem.com

Sagem (groupe Safran)
Direction de la Communication
Le Ponant de Paris 27, rue Leblanc
75 512 Paris Cedex 15 – France
www.sagem-ds.com